



AFP peptide (DAG-P0074)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly. [provided by RefSeq, Jul 2008]
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Specificity	Plasma. Synthesized by the fetal liver and yolk sac.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the ALB/AFP/VDB family. Contains 3 albumin domains.
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	AFP alpha-fetoprotein [Homo sapiens (human)]
Official Symbol	AFP
Synonyms	AFP; alpha-fetoprotein; FETA; HPAFP; alpha-fetoglobulin; alpha-1-fetoprotein;

Entrez Gene ID	174
mRNA Refseq	NM_001134.2
Protein Refseq	NP_001125.1
UniProt ID	P02771
Chromosome Location	4q13.3
Pathway	Direct p53 effectors, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Glucocorticoid receptor regulatory network, organism-specific biosystem; Hippo signaling pathway, organism-specific biosystem; Hippo signaling pathway, conserved biosystem;
Function	metal ion binding;